

EXHIBIT B

1. General Motors product literature for 1994 Accessories & Equipment, Remote Keyless Entry System - "N" Body.
2. General Motors product literature for 1994 Accessories & Equipment, Remote Keyless Entry System - Corvette.
3. Nissan Product Bulletin, Vol. 246, pages N2179-80, Sentra, Stanza Altima, 300ZX, Maxima, Quest, Truck & Pathfinder, 1994 Models Introduction.
4. Nissan Product Bulletin, Maxima, Model A32 Series, 1995 Model Introduction, pages N2163-N2170.
5. Nissan Pathfinder, Operator's Manual, Vehicle Security System, pages N2390-N2194.
6. Nissan Altima, Vehicle Security System Operator's Manual, pages N2354-N2359.
7. Toyota Vehicle Security System, Owner's Guide, 16 pages.

# 1994 ACCESSORIES & EQUIPMENT

## Remote Keyless Entry System - "N" Body

**"N" Body: Achieva, Grand Am, Skylark**

### DESCRIPTION & OPERATION

Remote keyless entry system allows driver to unlock driver's door, unlock all doors, lock all doors, or release trunk lid by using a hand held transmitter. Maximum transmitter range is approximately 23 ft. If transmitter range becomes less than 23 ft., batteries in transmitter may need replacement. Keyless entry system also incorporates illuminated entry system.

### PROGRAMMING PROCEDURE

1) Keyless entry modules (receivers) can be programmed to receive 2 Vehicle Access Codes (VAC). Two transmitters may be used to operate remote control lock system. In addition, several vehicles, each with keyless entry, may be programmed to operate from same transmitter or 2 different transmitters.

2) During programming of keyless entry module receiver, feedback is provided by receiver by cycling door locks. To program a keyless entry module receiver to match the VAC of 1-2 transmitters, use a jumper wire and jumper 2 terminals of keyless entry module program connector. Program connector is located in front of left rear inner wheel panel, inside trunk. See Fig. 1.

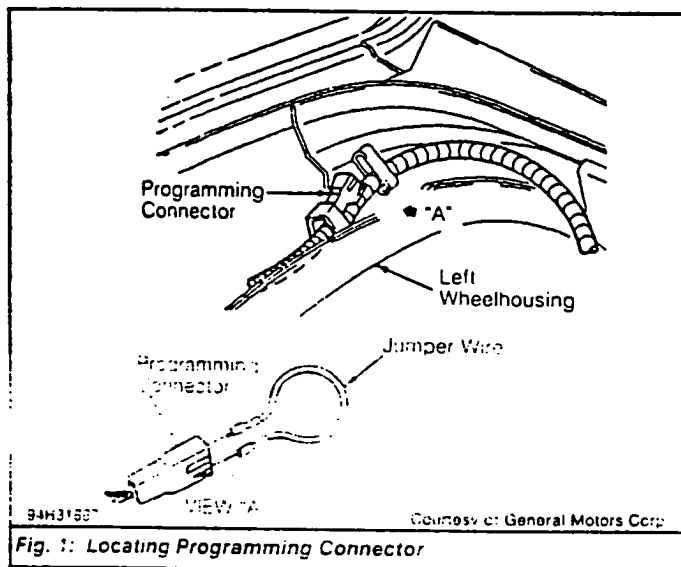


Fig. 1: Locating Programming Connector

3) Program connector contains 2 terminals. Tan wire in terminal "A" is programming lead, and Black wire in terminal "B" is a ground. Jumping terminal "A" to "B" will initiate program mode. Module will cycle door locks as an indication of program mode feedback.

4) Press one button on transmitter one time to store VAC code for that transmitter. Door locks will cycle as feedback.

5) If only one transmitter is being programmed, go to next step. If more than one transmitter is being programmed, press one button on second transmitter to store second transmitter's VAC. First transmitter's VAC is retained. Door locks will provide feedback. If a second VAC is desired, repeat before programming harness is removed. Programming is complete when transmitter's VAC only. This procedure is for 1994 models only. See proper operation for 1995 models.

After programming, always lock doors before programming keyless entry system. This will prevent unintentional lock out if programming procedure is not correctly performed.

### TROUBLE SHOOTING

NOTE: If the system does not operate without ignition put in RUN position, check battery voltage. Low battery voltage may cause system to malfunction.

1) Ensure all grounds and terminal contacts are clean and tight. Check GAUGES fuse by observing instrument cluster gauges. Check CTSY fuse by operating power door locks. Check battery transmitter terminals.

2) Try a known good second transmitter. If it works, change batteries in first transmitter and try it again. If it still does not work, replace transmitter.

### DIAGNOSIS & TESTING

#### REMOTE KEYLESS ENTRY & ILLUMINATED ENTRY

**Illuminated Entry Lights Do Not Operate Properly -** Disconnect RKE module connector C2. Check for battery voltage at RKE module connector C2 terminal "F" (White wire). If battery voltage is not present, check for open circuit or short to ground in White wire.

**Trunk Lid Release Does Not Operate Properly From Transmitters -** 1) Disconnect RKE module connector C1. Turn ignition switch to RUN position. Check for battery voltage at module connector C1 terminal "B" (Pink wire). If battery voltage is present, go to next step. If battery voltage is not present, check for open circuit or short to ground in Pink wire.

2) Disconnect RKE module connector C2. Connect jumper wire between module connector C2 terminal "B" (Black wire) and voltage. If trunk lid release solenoid activates, go to next step. If trunk lid release solenoid does not activate, check Black wire for an open circuit.

3) Put transmission in Park or Neutral. With RKE module connector C2 still disconnected, ensure continuity is present between terminal "G" (White/Black wire) and ground. If continuity is not present, check White/Black wire for an open circuit or short to voltage. If all checks are to specification, replace RKE module.

**Both Transmitters Do Not Operate Some Or All Features -** 1) Disconnect RKE module connector C1. Ensure continuity is present between connector terminal "F" (Black/White wire) and program connector terminal "A" (Black/White wire). If continuity is to specification, go to next step. If continuity is not to specification, check Black/White wire for an open circuit.

2) Turn ignition switch to RUN position. Check for battery voltage at connector terminal "B" (Pink wire). If battery voltage is not present, disconnect connector and go to next step. If battery voltage is present, check for open circuit or short to ground in Pink wire.

3) Disconnect RKE module connector C2. If battery voltage is present at connector terminal "A" (Orange wire), go to next step. If battery voltage is not present, check Orange wire for an open circuit.

4) Ensure RKE module connector C2 is still disconnected. Connect jumper wire between module connector C2 terminal "B" (Black wire) and voltage. If trunk lid release solenoid activates, go to next step. If trunk lid release solenoid does not activate, check Black wire for an open circuit.

5) Ensure RKE module connector C2 is still disconnected. Connect jumper wire between module connector C2 terminal "C" (Tan wire) and voltage. If driver's door locks, go to next step. If driver's door does not lock, check Tan wire and Ground wire for an open circuit or short to voltage.

6) Disconnect RKE module connector C2. Check for battery voltage at connector terminal "D" (Green wire). If battery voltage is not present, disconnect connector and go to next step. If battery voltage is present, check for open circuit or short to ground in Green wire.

7) Disconnect RKE module connector C2. Check for battery voltage at connector terminal "E" (Blue wire). If battery voltage is not present, disconnect connector and go to next step. If battery voltage is present, check for open circuit or short to ground in Blue wire.

8) Disconnect RKE module connector C2. Check for battery voltage at connector terminal "G" (White/Black wire). If battery voltage is not present, disconnect connector and go to next step. If battery voltage is present, check for open circuit or short to ground in White/Black wire.

# 1994 / ACCESSORIES & EQUIPMENT

## Remote Keyless Entry System - Corvette (Cont.)

GM  
4-585

### SETTING TROUBLE CODE DIAGNOSIS

Diagnostic mode will be exited whenever grounding of diagnostic input is removed. Receiver will return to transmitter in range/ignition mode after exiting diagnosis.

### TRANSMITTER PROGRAMMING

**NOTE:** Ensure radio is turned off when programming PKE system.

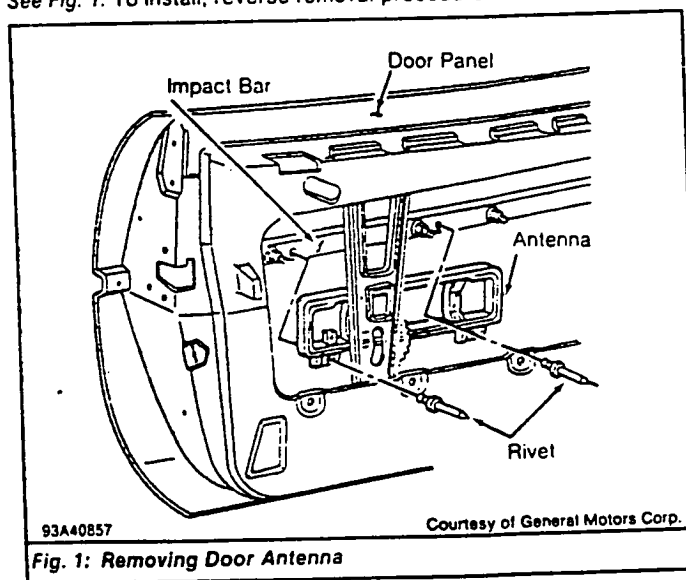
1. Turn ignition switch to RUN position. Push and release TRIP ODO button. Push TRIP ODO button again and hold for 5 seconds.
2. Within 5 seconds, push and hold Fuel INFO button for 10 seconds.
3. PASSIVE KEYLESS ENTRY light should come on continuously.
4. Turn ignition switch to LOCK position and leave key in ignition. PASSIVE KEYLESS ENTRY light should begin flashing the number of the transmitter to be programmed (once for first transmitter, twice for second, etc.)
5. When transistor is programmed and code stored, light will illuminate continuously as long as that transmitter remains within reception range.

### REMOVAL & INSTALLATION

**NOTE:** See PKE COMPONENT LOCATION table.

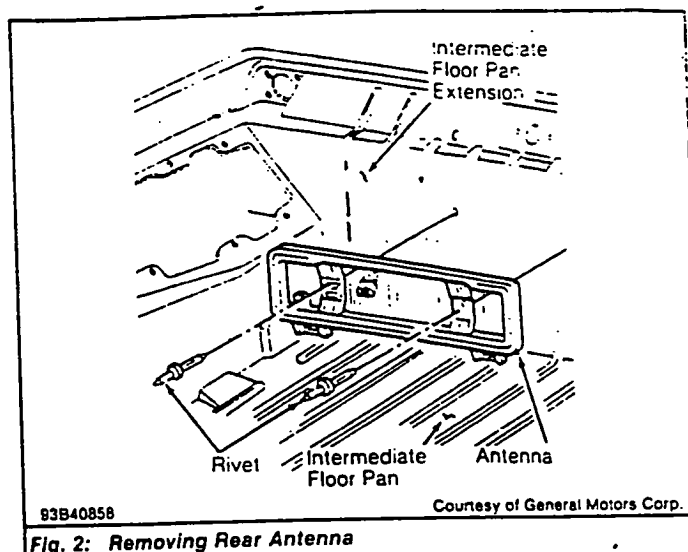
#### DOOR ANTENNA

**Removal & Installation** - Remove door outside protective molding. Remove door trim panel. Remove door accessory mounting plate. Drill out antenna mounting rivets. Disconnect harness connector and retaining clip. Remove antenna by pulling firmly on each adhesive pad. See Fig. 1. To install, reverse removal procedure.



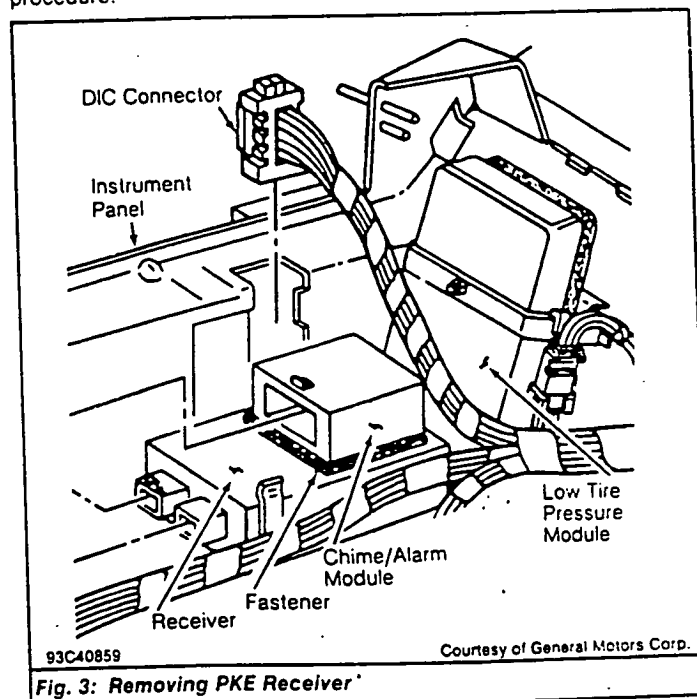
#### REAR ANTENNA - COUPE

**Removal & Installation** - Open rear lift window hatch. Remove rear floor stowage compartment handle. Separate hook and loop fastener from stowage compartment doors and move carpeting out of way. To access antenna, fold down carpet insulator. Disconnect electrical connector. Drill out mounting rivets. Remove antenna by pulling firmly on each adhesive pad. See Fig. 2. To install, reverse removal procedure.



#### PKE RECEIVER

**Removal & Installation** - Remove instrument panel upper trim pad. Remove chime module from receiver by pulling firmly on module to separate hook and loop fastener. Remove receiver from retainer. See Fig. 3. Disconnect electrical connector. To install, reverse removal procedure.



# **NISSAN**

**SENTRA  
STANZA ALTIMA  
300ZX  
MAXIMA  
QUEST  
TRUCK &  
PATHFINDER**

1994 Models Introduction

Vol. 246

# BODY

## MULTI-REMOTE CONTROL SYSTEM

The multi-remote control system locks and unlocks all doors, releases trunk lid, and turns interior lights or spot lights on by using a coded radio wave signal. It consists of a remote controller, an antenna built into the rear window, or front window (convertible model), and a control unit.

### OPERATION

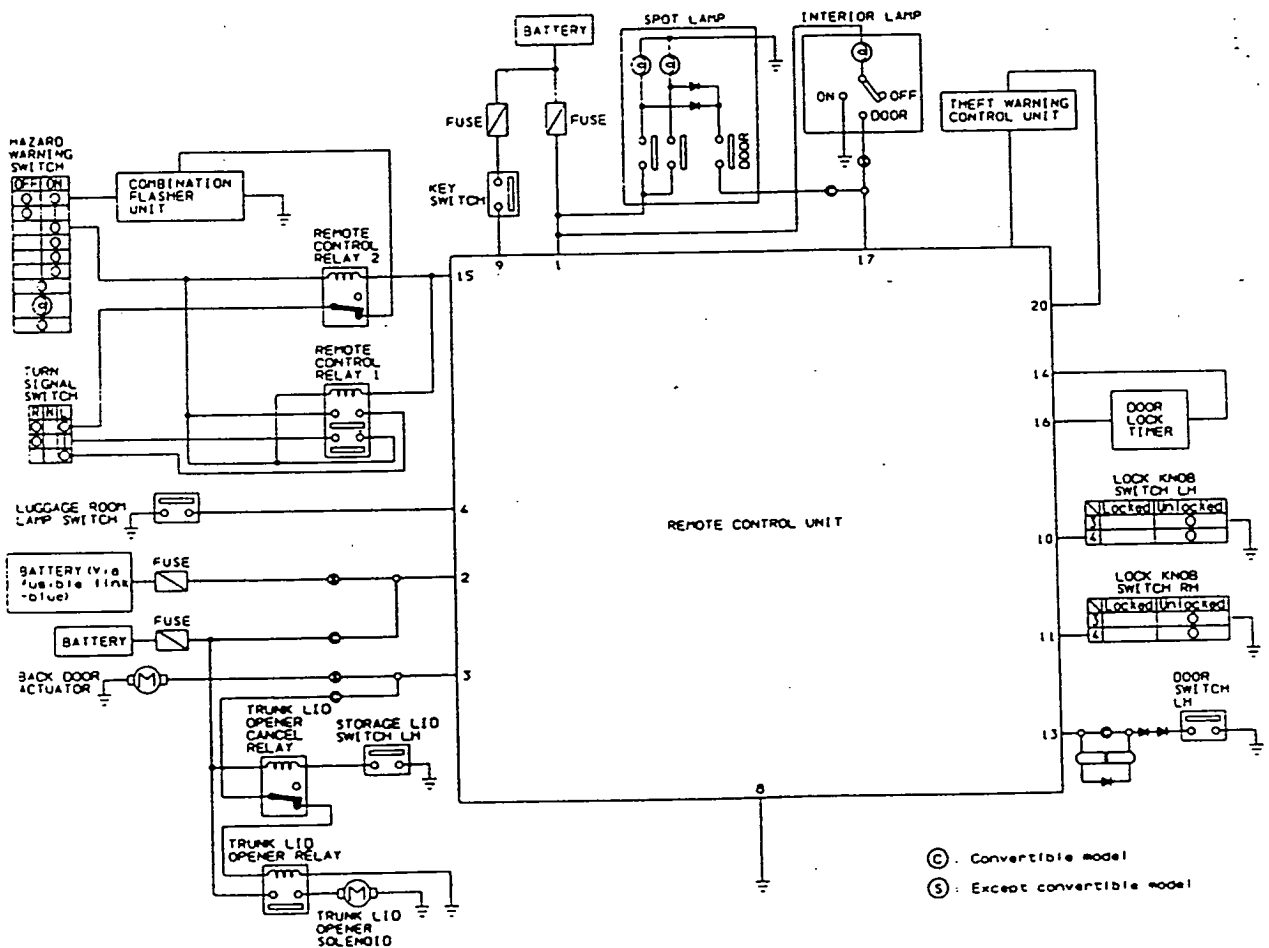
#### ANTENNA

The antenna built into the rear window, or front window (convertible model), receives the radio wave signal from remote controller.

#### CONTROL UNIT

When the radio wave signal code matches that of the control unit, the control unit supplies power for operation.

### CIRCUIT DIAGRAM



## MULTI-REMOTE CONTROL SYSTEM

The multi-remote control system locks and unlocks all doors, releases trunk lid, and turns interior lights on by using a coded radio wave signal. It consists of a remote controller, an antenna built into the rear window, or front window (convertible model), and a control unit.

### OPERATION

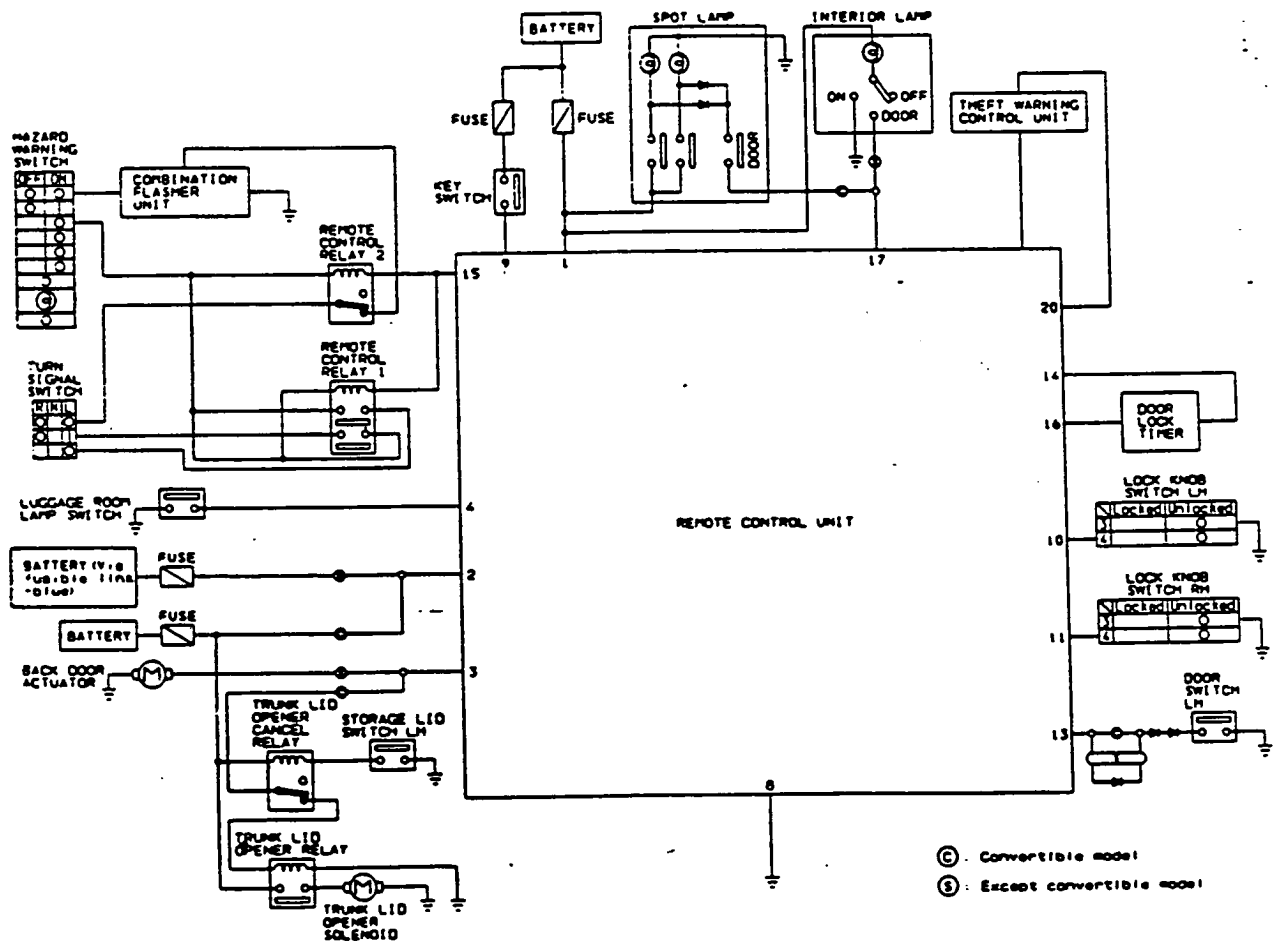
#### ANTENNA

The antenna built into the rear window, or front window (convertible model), receives the radio wave signal from remote controller.

#### CONTROL UNIT

When the radio wave signal code matches that of the control unit, the control unit supplies power for operation.

### CIRCUIT DIAGRAM



## REPLACING REMOTE CONTROLLER OR CONTROL UNIT

If the remote controller or the control unit needs to be replaced or if an additional remote controller needs to be set, enter the Identity (ID) code manually.

### ID Code Entry Procedure

To enter the ID code, follow this procedure.

#### "Setting mode".

Three steps must be followed to establish the "setting mode".

- (1) Open the trunk.
- (2) Close and lock all doors.
- (3) Insert and remove the key from the ignition more than six times within 10 seconds.

#### ID code entry:

- (4) Unlock and lock the driver's door inside lock lever once.
- (5) Push lock button on the new remote controller once (for example, if door is locked using the remote controller during this ID code entry enable state, a new ID code can be entered).

#### Note

At this time, the original ID codes are eliminated and the new ID code is entered.

- (6) If you need to enter additional remote controllers (including the original) repeat the step (4) and (5) for each additional controller.
- (7) This ID code entry enable state and setting mode remain until any one of the doors is opened.

#### Note

- If the same ID code that existing in the memory is input, the entry is canceled, and no ID code will be entered.
- Entry of maximum four ID codes is allowed and any attempt to enter more will be ignored.
- Any ID codes entered after termination of the "setting" mode will not be accepted. Additionally remote control signals will be inhibited when an ID code has not been entered during the "setting" mode.

## REPLACING REMOTE CONTROLLER OR CONTROL UNIT

If the remote controller or the control unit needs to be replaced or if an additional remote controller needs to be set, enter the Identity (ID) code manually.

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- (2) Close and lock all doors.
- (3) Insert and remove the key from the ignition more than six times within 10 seconds.

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- (4) Unlock and lock the driver's door inside lock lever once.
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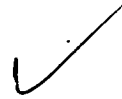


# **NISSAN**

# **MAXIMA**

## **MODEL A32 SERIES**

1995 Model Introduction



- The interior lamp can be turned off without waiting for 30 seconds by:
  - inserting the key into the ignition.
  - locking the doors with the remote controller.
  - pushing the interior light button.

#### ④ OPENING THE FRONT WINDOWS

1. Push the unlock button on the remote controller for longer than 1.5 seconds after the driver's door is unlocked.
2. The front windows will open.
  - The front windows will also open after all doors are unlocked with the remote controller.
  - The front windows can not be closed by using the remote controller.

#### ⑤ RELEASING THE TRUNK LID

1. Push the trunk lid release button on the remote controller for longer than 1.0 second.
2. The trunk lid will open.
  - The trunk lid will not open with the trunk lid opener cancel lever turned to OFF.

#### ⑥ INTERIOR LAMP

1. Push the interior lamp button on the remote controller.
2. The interior lamp will stay on for 30 seconds.
  - The interior lamp can be turned off without waiting for 30 seconds by:
    - inserting the key into the ignition.
    - locking the doors with the remote controller.

### REPLACING REMOTE CONTROLLER OR CONTROL UNIT

If the remote controller or the control unit needs to be replaced or if an additional remote controller needs to be set, enter the Identity (ID) code manually.

#### ID Code Entry Procedure

To enter the ID code, follow this procedure.

#### "Setting mode":

Three steps must be followed to establish the "setting mode".

- (1) Close and lock all doors.
- (2) Insert and remove the key from the ignition more than six times within 10 seconds. (The hazard warning lamp will then flash twice.)
  - At this time, the original ID codes are eliminated.
- ID code entry:
  - (3) Turn ignition key to "ACC" position.
  - (4) Push lock button on the new remote controller once (for example, if door is locked using the remote controller during this ID code entry enable state, a new ID code can be entered).
    - At this time, the new ID code is entered. (The hazard warning lamp will then flash twice.)
  - (5) If you need to enter additional remote controllers (including the original), release the driver's door lock, then lock again with door lock knob.
  - (6) Push lock button on the new additional remote controller once.
  - (7) This ID code entry enable state and setting mode remain until the driver's door is opened.

#### NOTE

- If the same ID code that existing in the memory is input, the entry is canceled, and no ID code will be entered.
- Entry of maximum four ID codes is allowed and any attempt to enter more will be ignored.
- Any ID codes entered after termination of the "setting" mode will not be accepted. Additionally remote control signals will be inhibited when an ID code has not been entered during the "setting" mode.

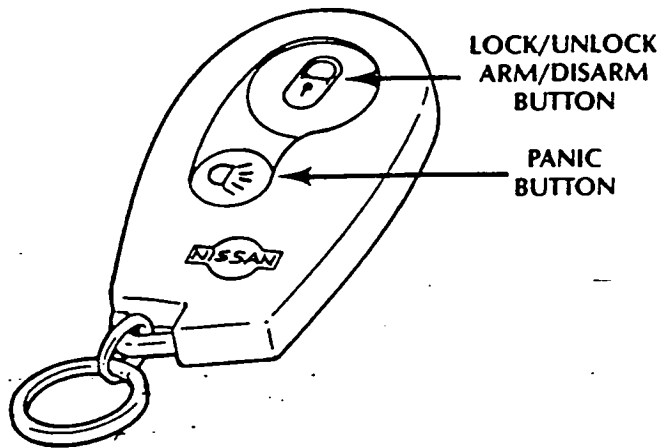


ALTIMA  
VEHICLE  
SECURITY  
SYSTEM  
OPERATOR'S  
MANUAL

CALSONIC

ALTIMA

N2354



The remote control will communicate with a receiver inside your vehicle any time you are within 30 feet of the vehicle. Your range may vary as a result of other radio transmissions in the area or objects blocking the signal.

There are two remote controls supplied with each vehicle. The receiver can recognize four remote controls. If you require additional remote controls for other drivers, or if one becomes lost or damaged, they may be purchased and programmed at your local Nissan dealer.

## Programming additional remote controls:

When programming additional remote controls, it is possible to erase a previously-programmed remote control. When an additional remote control is added, it may be necessary to program all remote controls at this time.

1. Sit inside the vehicle with the hood, trunk and all doors closed.
2. Place the console switch in the **ALARM OFF** position.
3. Turn the ignition key from the **OFF** position to the **ON** position to the **OFF** position **SIX** times within 10 seconds. Note: **OFF** to **ON** to **OFF** = 1 time.
4. Move the console switch from the **ALARM OFF** position to the **AUTO** position and then to the **ALARM OFF** position.
5. Press the Lock/Unlock button on the remote control **ONE** time.
6. To program additional remote controls, repeat steps 4 & 5.
7. To conclude programming at any time, open any door.

# SalesTalk

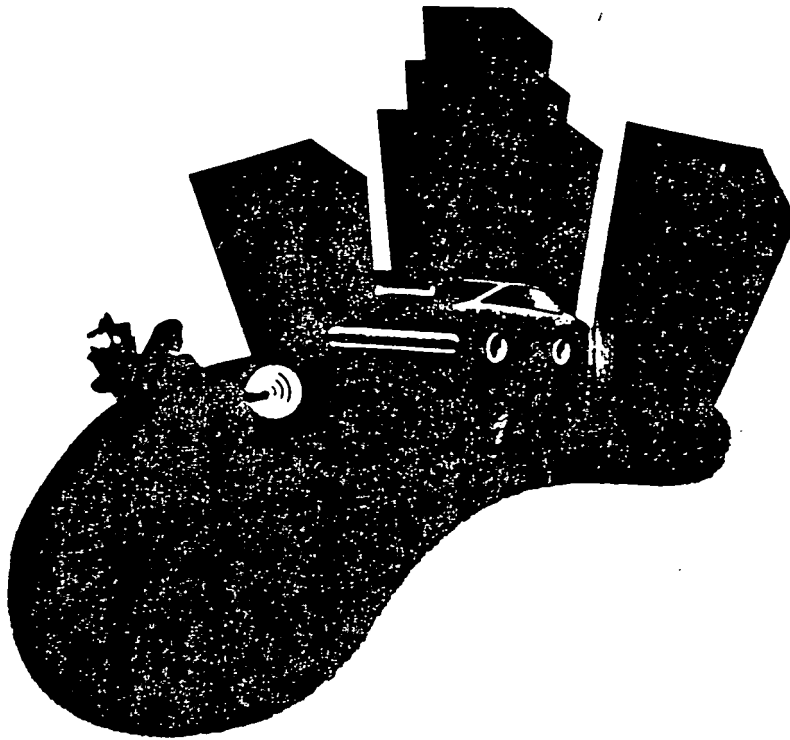
THE AWARD-WINNING MAGAZINE FOR THE NISSAN SALES PROFESSIONAL

APRIL 1995

*25 Years of the Z*

*Plus: Nissan Remote Control Vehicle Security  
Systems, 1995 President's Circle Dealers,  
the New Owner First Survey, and More...*

# Remote Possibilities



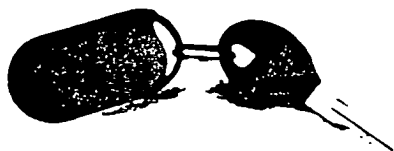
A COMPLETE  
GUIDE TO  
NISSAN  
REMOTE CONTROL  
VEHICLE  
SECURITY SYSTEMS

*As you probably know from your own experience, a remote control vehicle security system is a popular feature with today's new car buyers. Nissan knows it; that's why such a system is available for almost every model in the Nissan lineup.*

*However, remote control vehicle security systems can cause confusion for both customers and salespeople. When they do, they go from providing convenience and peace-of-mind to creating frustration and dissatisfaction*

*for everyone involved. To prevent this from happening with you and your customers, we've put together the following overview of Nissan remote control vehicle security systems. In it, we examine the features and capabilities of each system, as well as some common sources of confusion about system operation. Review this information carefully. It should answer many of your questions, and also help you answer the questions you get from your customers.*

For the 1995 model year, remote control vehicle security systems are available for Sentra, Altima, Maxima, 200SX, 240SX, 300ZX and Pathfinder. There are several different systems in use on these vehicles. Together, the systems utilize four different remote transmitters. To explain how the different systems operate, we've grouped them by the vehicles on which they're found and the type of transmitter they use.



#### **MAXIMA AND 300ZX: FOUR-BUTTON TRANSMITTER**

**System availability:** Standard on Maxima GLE; optional on Maxima GXE and SE. Standard on all 300ZX models. Factory-installed system.

**Transmitter:** Has one large semi-circular button and three small round buttons. The large button has a closed padlock icon; the small buttons have an open padlock icon, an open trunk lid icon and a glowing light bulb icon, respectively. The large button is blue-gray; the three small buttons are black.

**Locking the doors:** When all doors are closed, pressing the button with the closed padlock icon (the "lock" button) locks all unlocked doors. The vehicle's hazard lights will then flash twice to confirm that all doors are locked. If the "lock" button is pressed again when all doors are locked, the hazard lights will flash twice to indicate that the doors are already locked.

**Unlocking the doors:** Pressing the small button with the open padlock icon (the "unlock" button) unlocks the driver's door on the Maxima and the driver and passenger doors on the 300ZX. This also turns on the dome light. The light will stay on for 30 seconds or until the key is inserted into the ignition or the doors are locked again.

On Maxima, the "unlock" button has two additional functions. Pressing the button a second time within five seconds unlocks all passenger doors; holding the button down for two seconds when opening the driver or passenger doors opens both front windows.

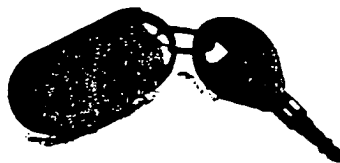
**Arming and disarming the system:** After all doors have been locked with the key or the remote transmitter, the "Security" light on the dash will glow for 30 seconds. After 30 seconds, the system arms and the light flashes continuously. If any of the doors are unlocked during the 30-second period, the system will not arm. After the system is armed, pressing the "unlock" button or unlocking one of the doors with a key automatically disarms the system.

**Activating and deactivating the alarm:** Once the system is armed, the alarm can be activated (set off) in three ways: by opening the hood; by tampering with a key cylinder on a door, the trunk or the hatch; or by opening a door, the trunk or the hatch without the key or remote transmitter.

When the alarm is activated, the headlights flash, the horn honk, and the starter motor is disabled. The alarm shuts off within two to three minutes, then the system is automatically armed again. Once the alarm has been activated, it can be shut off by pressing the "unlock" button or by opening a door, the trunk or the hatch with a key.

**Panic mode:** The "panic mode" feature enables an owner to intentionally activate the alarm in emergency situations. To do this, the owner must press the "lock" button for at least two seconds. This will cause the alarm to go off for 30 seconds. The alarm can be stopped by pressing any button on the transmitter or inserting the key in the ignition.

**Trunk/interior light:** Pressing the "open trunk lid" button for at least one second opens the trunk on the Maxima and the rear hatch on the 300ZX. (On the Maxima, this will not work if the trunk lid cancel lever is in the "Cancel" position.) Pressing the button with the glowing light bulb icon turns on the dome light. The light will stay on for 30 seconds or until the key is inserted into the ignition or the doors are locked.



#### **SENTRA, 200SX, 240SX: THREE-BUTTON TRANSMITTER**

**System availability:** Standard on Sentra GLE, 200SX SE-R and 240SX SE. Factory-installed system.

**Transmitter:** Has one large semi-circular button and two small round buttons. The large button has a closed padlock icon; one small button has an open padlock icon and the other has a loudspeaker icon. All buttons are black.

**Locking the doors:** When all doors are closed, pressing the large button with the closed padlock icon (the "lock" button) locks all unlocked doors. The vehicle's hazard lights will then flash twice to confirm that all doors are locked. If the "lock" button is pressed again when all doors are locked, the hazard lights will flash twice to indicate that the doors are already locked.

**Unlocking the doors:** Pressing the small button with the open padlock icon (the "unlock" button) unlocks the driver's door. Pressing the button a second time within five seconds unlocks the passenger door(s).

Unlocking the driver's door with the remote transmitter also turns on the dome light. The light will stay on for 30 seconds or until the key is inserted into the ignition or the doors are locked again.

**Arming and disarming the system:** After all doors have been locked with the key or the remote transmitter, the "Security" light on the dash will glow for 30 seconds. After 30 seconds, the system arms and the light flashes continuously. If any of the doors are unlocked during the 30-second period, the system will not arm. After the system is armed, pressing the "unlock" button or unlocking one of the doors with a key automatically disarms the system.

**Activating and deactivating the alarm:** Once the system is armed, the alarm is activated by opening the hood or by opening a door, the trunk or the hatch without the key or remote transmitter.

When the alarm is activated, the headlights flash, the horn honks and the starter motor is disabled. The alarm shuts off within two to three minutes, then the security system is automatically armed again. Once the alarm has been activated, it can be shut off by pressing the "unlock" button or by opening a door, the trunk or the hatch with a key.

**Panic mode:** The small button marked with the loudspeaker icon is the "panic button" that lets the owner intentionally set off the alarm in emergency situations. Pressing this button for at least two seconds causes the alarm to go off for 30 seconds. The alarm can be stopped by pressing the "lock" or "unlock" button or pressing the "panic button" for at least two seconds.

## ANSWERING CUSTOMER QUESTIONS ABOUT NISSAN REMOTE CONTROL VEHICLE SECURITY SYSTEMS

### *Where can I find instructions for my vehicle security system?*

Systems for the Sentra, Maxima, 200SX, 240SX and 300ZX are described in the vehicle owner's manual. See the "Theft Warning" subsection in the "Instruments and Controls" section, and the "Key" and "Door Locks" subsections in the "Pre-driving Checks and Adjustments" section.

Altima GLE and Pathfinder systems are described in two booklets found in the vehicle glove box: the Vehicle Security System Operator's Manual and the Vehicle Security System Quick Reference Guide. The system for the Altima GXE and SE is described in the Altima Remote Control Vehicle Security System brochure available in Nissan showrooms.

### *How far away from my vehicle can I operate my remote transmitter?*

Maximum operating range is 25 feet for the Pathfinder/Altima GLE system, 30 feet for the Altima GXE/SE system and 49 feet for all other systems.

### *My remote transmitter doesn't seem to work as well as it used to. What's wrong?*

In most cases, diminished transmitter performance is caused by weak batteries. To check the batteries, use a digital volt meter or take the transmitter to an electronics store for a voltage check. Required battery type and replacement instructions are found in your owner's manual or Vehicle Security System Operator's Manual.

### *I'd like to purchase an additional remote transmitter for my security system. How can I get one?*

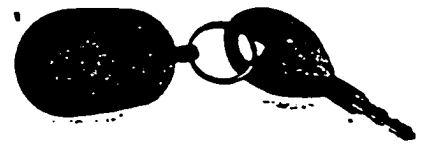
Additional transmitters are available from your Nissan dealership parts department. All systems come standard with two transmitters and can be programmed to accept two more.

### *The extra transmitter I bought doesn't work. What's wrong?*

A couple of things are possible. First, you may have purchased the wrong transmitter. Be sure to indicate your vehicle's model name, trim level and model year when purchasing an additional transmitter. Second, did you put fresh batteries in the transmitter? Finally, has the transmitter been programmed to work with your vehicle? If not, take it to your Nissan dealership to have it programmed. Bring your vehicle and all other transmitters for the system, as all transmitters will need to be programmed at the same time. If you program only your new transmitter, the codes for your other transmitters will be deleted.

### *I'd like my security system to be less sensitive to vehicle impacts. Can I have the impact sensor adjusted?*

Yes. The impact sensor is pre-set to "medium" sensitivity. It can be adjusted to "high" or "low" by a qualified Nissan service technician.



## PATHFINDER AND ALTIMA GLE: TWO-BUTTON TRANSMITTER

**System availability:** Pathfinder: Standard on SE-V6 and LE-V6 models; optional on XE-V6 models. Port-installed system. Altima GLE: Factory-installed theft deterrent system standard; system can be upgraded with a remote control entry system available as a dealer-installed Genuine Nissan Accessory. (Only upgraded system is described here.)

**Transmitter:** Has a wedge-shaped button with an open padlock icon and a round button with a loudspeaker icon. Buttons are gray. The Pathfinder transmitter is embossed with the word "Pathfinder"; the Altima GLE transmitter is embossed with the word "Nissan."

**Center console switch:** A switch on the center console allows the owner to choose three different options for system operation: "Alarm On" (system operates normally); "Impact Off" (disables the system's impact sensor); and "Alarm Off" (disables the alarm; remote locking functions and panic mode feature operate normally).

**Locking the doors/arming the system:** When all doors are closed, pressing the wedge-shaped button with the closed padlock icon (the "lock" button) locks all unlocked doors (including the liftgate on Pathfinder) and immediately arms the system. The vehicle's hazard lights will flash once to confirm locking and the alarm will "chirp" to confirm system arming. The "Security" light located above the console switch will also flash slowly.

If the doors are locked with the power door lock switch or key instead of the transmitter, the "Security" light will flash rapidly for 30 seconds. After 30 seconds the system will arm, confirmed by a single flash of the hazard lights, a "beep" from inside the vehicle and slow flashing of the "Security" light. The owner may open a door, the hood, the trunk or the liftgate during the 30-second arming delay without activating the alarm. The 30-second delay period will start over after all the doors are closed and all the doors are locked again.



**Arming zones:** The system protects the vehicle in "zones." One zone includes the doors and another includes the hood and trunk or liftgate. If part of a zone (e.g., one of the doors) is left open when the system is armed, a flat buzzing sound will be heard instead of a chirp. This indicates that the entire zone is unprotected. The closed zone, however, will be armed. As soon as the open part of the zone is closed, the system will arm the entire zone.

**Unlocking the doors/disarming the system:** Pressing the "lock" button unlocks the doors and liftgate and disarms the system. This also turns on the dome light. The light will stay on for 30 seconds or until the key is inserted into the ignition or the doors and liftgate are locked again. To confirm unlocking and disarming, the hazard lights will flash twice, the alarm will emit two chirps and the "Security" light will go off.

If a door is unlocked with a key instead of the remote transmitter, the "Security" light will flash rapidly. The key must be turned in the ignition to disarm the system. If this isn't done within 30 seconds, the alarm will go off.

**Important note:** If the system was armed with the remote transmitter, unlocking a door with a key will instantly activate the alarm. If the system was armed with the transmitter it should be disarmed with the transmitter before opening a door.

**Tamper warning:** If the alarm has been triggered in the driver's absence, the alarm will emit three chirps and the hazard lights will flash three times when the vehicle is disarmed with the remote transmitter. The "Security" light will also glow continuously until the ignition key is turned.

**Activating and deactivating the alarm:** Once the system is armed, the alarm is activated by opening the hood, trunk or liftgate (even with a key), or by opening a door without the key or remote transmitter. If the system was armed with the remote transmitter, opening the door with a key will activate the alarm. Impact to the vehicle can also activate the alarm (see next section).

When the vehicle is armed automatically (without the remote transmitter), a 30-second "entry delay" begins once a door is opened with a key. If the system is not

disarmed within 20 seconds of opening the door, the hazard lights will begin to flash and an intermittent beep will sound from the vehicle. If the system is not disarmed within ten more seconds, the alarm will go off.

When the alarm is activated, a siren sounds, the horn honks and the headlights flash. This continues for one minute. The starter motor is also disabled during this time. If a door, the hood, the trunk or the liftgate is left open after the alarm has sounded, the alarm will trigger again up to four times. When the alarm stops, the system is automatically armed again.

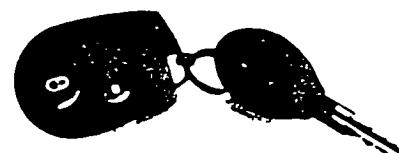
Once the alarm has been activated, it can be shut off by turning the key in the ignition or pressing and holding either button on the transmitter for ten seconds.

**Impact sensor:** The system includes an impact sensor with a "warn away" feature. A minor impact to the vehicle causes the system to emit a two-second warning tone to deter vandalism and forced entry. A series of minor impacts or one major impact will cause the full alarm to sound for one minute.

**Note:** The warning tones will not activate the system's tamper warning feature.

**Panic mode:** The small button marked with the loudspeaker icon is the "panic button" that lets the owner intentionally set off the alarm in emergency situations. Pressing this button for at least four seconds will cause the alarm to sound for five minutes. (Warning tones will be heard while the button is being pressed, indicating that the alarm is about to go off.) Once the alarm has been triggered, it can be stopped by turning the key in the ignition or by pressing and holding either button on the transmitter for ten seconds.

**Anti-scan feature:** This feature enables the system to detect and disable unauthorized radio frequency transmissions attempting to unlock the vehicle and deactivate the security system. If six unauthorized frequency transmissions are detected within 30 seconds, the vehicle's receiver unit shuts down for two minutes. The system will not respond to the remote transmitter during this time. However, the system will still be armed.



### ALTIMA GXE AND SE: TWO-BUTTON TRANSMITTER

**System availability:** Available as a dealer-installed Genuine Nissan Accessory for the Altima GXE and Altima SE.

**Transmitter:** Has a large round button with a closed padlock icon and a small round button with a loudspeaker icon. Buttons are blue-gray. Transmitter is embossed with the Nissan logo.

**Operation:** The system operates the same way as the Pathfinder/Altima GLE system with a few exceptions. The primary differences are noted below.

**Center console switch:** The switch has an "Auto" position instead of an "Alarm on" position. The switch has the same function (allows system to operate normally).

**Arming zones:** The system has three zones instead of two. One zone includes the doors, one includes the hood and one includes the trunk. If a zone is left open when the system is armed, the system will emit four chirps rather than a buzzing sound.

**Alarm activation:** If a door, the hood or the trunk is left open after the alarm has sounded, the alarm will not trigger again as it does on the Pathfinder/Altima GLE system.

**Impact sensor:** Minor impact to the vehicle causes the system to emit a chirp instead of a two-second warning tone.

**Panic mode:** The panic button sounds the alarm for one minute rather than five minutes. While the button is being pressed, the system will emit three chirps. If the owner lets go of the button during this time, the alarm will not go off.

**"Chirp" disabler:** The chirping sounds that confirm system arming and disarming may be deactivated by holding down both transmitter buttons until the horn sounds (about ten seconds). Repeating this procedure reactivates the chirps.

**Sleep mode:** If the vehicle is not opened or moved for three days after the system is armed, the system goes into a power-saving "sleep" mode. In this mode, the "Security" light will not flash but the system will remain armed. ◀





# SERVICE BULLETIN

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## 1995 ALTIMA VEHICLE SECURITY SYSTEM (VSS) TROUBLE DIAGNOSIS GUIDE

**APPLIED VEHICLE:** 1995 Altima (U13) GXE and SE only

### SERVICE INFORMATION

This Technical Bulletin contains information regarding the VSS system in the 1995 Altima. It details trouble shooting and diagnosing incidents that might arise with the VSS system.

## Outputs

- a) Terminal #20 supplies a pulse to the door lock timer to lock the doors when locked or armed with the remote control.
- b) Terminal #12 supplies a pulse to the door lock timer to unlock the doors when unlocked or disarmed with the remote control.
- c) Terminal #15 supplies a ground output to the vehicle horn relay when an alarm is sounding. NOTE! On some vehicles produced before 9/94 the horn connection may not be available.
- d) Terminal #3 supplies a power output to flash the clearance lights during an alarm and for visual confirmations when arming and disarming.
- e) Terminal #6 supplies a ground output to sound the siren.
- f) Terminal #13 supplies a ground output to illuminate the LED on the console switch.
- g) Terminal # 21 supplies a ground output to turn on the interior light when the system is disarmed and flashes the light when an alarm is sounding.

## Starter Cut

The ignition switch start signal is routed to the control unit through terminal #7 and relayed out through terminal #4. In the event that an alarm is sounded the control unit will not relay the start signal out until the system has been disarmed.

## Programming additional remote controls

When programming additional remote controls, it is possible to erase a previously-programmed remote control. When an additional remote control is added, it may be necessary to program all remote controls at this time.

1. Sit inside the vehicle with the hood, trunk and all doors closed.
2. Place the console switch in the **ALARM OFF** position.
3. Turn the ignition key from the **OFF** position to the **ON** position **SIX** times **within 10 seconds**.  
Note: **OFF** to **ON** to **OFF** = 1 time.
4. Move the console switch from the **ALARM OFF** position to the **AUTO** position and then to the **ALARM OFF** position.
5. Press the Lock / Unlock button on the remote control **ONE** time.
6. To program additional remote controls, repeat steps 4&5.
7. To conclude programming at any time, open any door.